

AMENDMENTS TO THE CLAIMS

Please cancel claims 35-41 and enter the following amendments:

1-21 (Canceled)

22. (Previously presented) An isolated nucleic acid molecule selected from the group consisting of:

- (a) an isolated nucleic acid molecule comprising:
 - (i) a nucleic acid sequence encoding a feline p35 subunit protein;
 - (ii) a nucleic acid linker of (XXX)_n wherein n=0 to 60; and
 - (iii) a nucleic acid sequence encoding a feline p40 subunit protein; and
- (b) an isolated nucleic acid molecule comprising a nucleic acid sequence fully complementary to the nucleic acid molecule set forth in (a).

23. (Previously presented) The isolated nucleic acid molecule of Claim 22, wherein said isolated nucleic acid molecule is selected from the group consisting of:

- (a) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p35 subunit encoding nucleic acid sequence comprises at least 44 contiguous nucleotides identical in sequence to at least 44 contiguous nucleotides of a nucleic acid sequence selected from the group consisting of SEQ ID NO:32, SEQ ID NO:35 and SEQ ID NO:101; and
- (b) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p40 subunit encoding nucleic acid sequence comprises at least 44 contiguous nucleotides identical in sequence to at least 44 contiguous nucleotides of a nucleic acid sequence selected from the group consisting of SEQ ID NO:26, SEQ ID NO:29 and SEQ ID NO:55.

24. (Currently amended) The isolated nucleic acid molecule of Claim 22, wherein said isolated nucleic acid molecule is selected from the group consisting of:

- (a) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p35 subunit encoding nucleic acid sequence comprises a nucleotide sequence at least 90% identical to SEQ ID NO:32, SEQ ID NO:35 and SEQ ID NO:101;

(b) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p40 subunit encoding nucleic acid sequence comprises a nucleotide sequence at least 90% identical to SEQ ID NO:26, SEQ ID NO:29 and SEQ ID NO:55; and

(c) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said nucleic acid molecule comprises a nucleic acid sequence at least ~~about~~ 90% identical to SEQ ID NO:38 or SEQ ID NO:43.

25. (Currently amended) The isolated nucleic acid molecule of Claim 22, wherein said nucleic acid molecule encodes a protein having a function selected from the group consisting of:

(a) eliciting an immune response against an IL-12 protein having the amino acid sequence of SEQ ID NO:~~38~~ 39 or SEQ ID NO:~~43~~ 44;

(b) selectively binding to an antibody raised against an IL-12 protein having the amino acid sequence of SEQ ID NO:~~38~~ 39 or SEQ ID NO:~~43~~ 44; and

(c) exhibiting IL-12 activity.

26. (Previously presented) The isolated nucleic acid molecule of Claim 22, wherein said nucleic acid linker comprises SEQ ID NO:83.

27. (Currently amended) The isolated nucleic acid molecule of Claim 22, wherein said isolated nucleic acid molecule is selected from the group consisting of:

(a) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p35 subunit encoding nucleic acid sequence comprises SEQ ID NO:32, SEQ ID NO:35 or SEQ ID NO:101;

(b) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p40 subunit encoding nucleic acid sequence comprises SEQ ID NO:26, SEQ ID NO:29 or SEQ ID NO:55; and

(c) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said isolated nucleic acid ~~sequence~~ molecule comprises SEQ ID NO:38 or SEQ ID NO:43.

28. (Currently amended) The isolated nucleic acid molecule of Claim 22, wherein said isolated nucleic acid molecule is selected from the group consisting of:

(a) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p35 subunit encoding nucleic acid sequence consists of SEQ ID NO:32, SEQ ID NO:35 or SEQ ID NO:101;

(b) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said p40 subunit encoding nucleic acid sequence consists of SEQ ID NO:26, SEQ ID NO:29 or SEQ ID NO:55; and

(c) an isolated nucleic acid molecule comprising a feline p35 subunit encoding sequence and a feline p40 subunit encoding sequence, wherein said isolated nucleic acid ~~sequence~~ molecule has a nucleic acid ~~sequences~~ sequence consisting of SEQ ID NO:38 or SEQ ID NO:43.

29. (Previously presented) An isolated nucleic acid molecule selected from the group consisting of:

(a) an isolated nucleic acid molecule comprising:

(i) a first nucleic acid sequence encoding a protein comprising an at least 23 contiguous amino acid region identical in sequence to an at least 23 contiguous amino acid region from SEQ ID NO:33, SEQ ID NO:36 or SEQ ID NO:102;

(ii) a nucleic acid linker of (XXX)_n wherein n=0 to 60; and

(iii) a second nucleic acid sequence encoding a protein comprising an at least 23 contiguous amino acid region identical in sequence to an at least 23 contiguous amino acid region from SEQ ID NO:27, SEQ ID NO:30 or SEQ ID NO:56; and

(b) an isolated nucleic acid molecule comprising a nucleic acid sequence fully complementary to the nucleic acid molecule set forth in (a).

30. (Previously presented) The isolated nucleic acid molecule of Claim 29, wherein said isolated nucleic acid molecule is selected from the group consisting of:

(a) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said first nucleic acid sequence encodes a protein comprising an amino acid sequence at least 90% identical to SEQ ID NO:33, SEQ ID NO:36 or SEQ ID NO:102;

(b) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said second nucleic acid sequence encodes a protein comprising an amino acid sequence at least 90% identical to SEQ ID NO:27, SEQ ID NO:30 or SEQ ID NO:56; and

(c) an isolated nucleic acid molecule encoding a protein comprising an amino acid sequence at least 90% identical to SEQ ID NO:39 or SEQ ID NO:44.

31. (Previously presented) The isolated nucleic acid molecule of Claim 29, wherein said nucleic acid molecule encodes a protein having a function selected from the group consisting of:

(a) eliciting an immune response against an IL-12 protein having the amino acid sequence of SEQ ID NO:27, SEQ ID NO:30 or SEQ ID NO:56;

(b) selectively binding to an antibody raised against an IL-12 protein having the amino acid sequence of SEQ ID NO:27, SEQ ID NO:30 or SEQ ID NO:56; and

(c) exhibiting IL-12 activity.

32. (Previously presented) The isolated nucleic acid molecule of Claim 29, wherein said isolated nucleic acid molecule is selected from the group consisting of:

(a) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said first nucleic acid sequence encodes an amino acid sequence comprising SEQ ID NO:33, SEQ ID NO:36 or SEQ ID NO: 102;

(b) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said second nucleic acid sequence encodes an amino acid sequence comprising SEQ ID NO:27, SEQ ID NO:30 or SEQ ID NO: 56; and

(c) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said isolated nucleic acid sequence encodes a protein comprising SEQ ID NO:39 or SEQ ID NO:44.

33. (Previously presented) The isolated nucleic acid molecule of Claim 29, wherein said isolated nucleic acid molecule is selected from the group consisting of:

(a) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said first nucleic acid sequence encodes an amino acid sequence consisting of SEQ ID NO:33, SEQ ID NO:36 or SEQ ID NO: 102;

(b) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said second nucleic acid sequence encodes an amino acid sequence consisting of SEQ ID NO:27, SEQ ID NO:30 or SEQ ID NO: 56; and

(c) an isolated nucleic acid molecule comprising a first and second nucleic acid sequence, wherein said isolated nucleic acid sequence encodes a protein having the sequence of SEQ ID NO:39 or SEQ ID NO:44.

34. (Previously presented) The isolated nucleic acid molecule of Claim 29, wherein said nucleic acid linker comprises SEQ ID NO:83.

35 - 41. (Canceled)

42. (Previously presented) A recombinant virus comprising a nucleic acid molecule as set forth in claim 22.

43. (Previously presented) A recombinant cell comprising a nucleic acid molecule as set forth in claim 22.

44. (Previously presented) A kit comprising a nucleic acid molecule as set forth in claim 22.

45. (Previously presented) A recombinant virus comprising a nucleic acid molecule as set forth in claim 29.

46. (Previously presented) A recombinant cell comprising a nucleic acid molecule as set forth in claim 29.

47. (Previously presented) A kit comprising a nucleic acid molecule as set forth in claim 29.